

the reaction chamber is smaller than atmospheric pressure, and ultraviolet rays are radiated to the reaction chamber.

Amended
9/8/2004

5. ~~CANCELED~~
(Withdrawn) A glass capillary comprising
- a first region where it is coated with a polymer of a generally constant thickness,
 - a second region where a surface of the glass capillary being exposed for a predetermined length in the longitudinal direction, and
 - a third region provided between the first and second regions, covered with a tapered polymer coating whose thickness becomes thinner from the first region to the second region, wherein a slope of the surface of the coating of the third region makes an angle of 70 degrees or less with the longitudinal direction of the capillary tube.
6. (Currently Amended) A method for manufacturing a polymer-coated glass capillary tube having a predetermined region of a coating of the polymer coated glass capillary tube removed comprising steps of:
- providing the polymer coated glass capillary tube;
 - raising a temperature in a reaction chamber in which the predetermined region of the polymer-coated glass capillary tube is arranged; and
 - reacting the predetermined region of the glass capillary tube with a reactive gas containing O_3 gas introduced into the reaction chamber so as to form the coating with a gradually decreasing thickness, the thickness decreasing in a predetermined certain area of the polymer coated glass capillary tube towards the predetermined region with the coating removed therein.
7. (Previously Presented) A method for manufacturing a polymer-coated glass capillary tube according to claim 6, wherein the temperature in the reaction chamber is raised to 150°C to 400°C, and the reactive gas containing O_3 gas having a concentration of 0.5% to 10% by volume is supplied to the reaction chamber where the pressure in the reaction chamber is smaller than atmospheric pressure.
8. (Previously Presented) A method for manufacturing a polymer coated glass capillary tube according to claim 6, wherein the temperature in the reaction chamber is raised